AMENDMENTS TO THE CLAIMS

In the Claims:

Please cancel claims 3-17. Please enter new claims 20-48 and amend claim 1 as follows:

- 1. (currently amended) A process for delivering a polynucleotide to a cell comprising consisting essentially of:
 - a) adding a metal cation to a chelator containing solution, wherein the metal cation is coordinately bound by the chelator;
 - a b) forming a complex consisting of adding a polynucleotide and a chelator into the solution of step a) to form a complex, wherein electrostatic interaction an association of the chelator with one or more components of the complex the polynucleotide requires the presence of a metal ion cation coordinated coordinately bound by the chelator; and,
 - bc) delivering the complex of step b) to the cell, wherein the delivery of the polynucleotide to the cell in enhanced by the cation-dependent association of the chelator with the polynucleotide.
- 2-17. (canceled)
- 18. (withdrawn)
- 19. (withdrawn)
- 20. (previously added) The process of claim 1 wherein the chelator consists of a polychelator.
- 21. (previously added) The process of claim 1 wherein the chelator consists of a crown ether.
- 22. (previously added) The process of claim 20 wherein a plurality of chelators is covalently linked to a polymer.
- 23. (previously added) The process of claim 20 wherein the polychelator is formed by covalently polymerizing chelator monomers.
- 24. (previously added) The process of claim 20 wherein the polychelator condenses the polynucleotide.
- 25. (previously added) The process of claim 24 wherein condensation of the polynucleotide requires the presence of cations.
- 26. (previously added) The process of claim 1 wherein the chelator is covalently linked to a compound selected from the list consisting of: a hydrophobic group, a cell receptor signal, a releasing signal, and a steric stabilizer.
- 27. (previously added) The process of claim 1 wherein the polynucleotide is expressible.

- 28. (previously added) The process of claim 29 wherein the polynucleotide expresses a therapeutic gene.
- 29. (previously added) The process of claim 1 wherein the cell consists of an *in vivo* mammalian cell.
- 30. (currently amended) A process for delivery of a polynucleotide to a cell comprising:
 - a) forming a complex consisting of a polynucleotide, and a primary amine-containing molecule; and
 - b) adding a chelator to the complex of a) to form a new complex wherein the chelator forms a non-covalent coordinate bond with the amine on the molecule; and,
 - bc) delivering the new complex to the cell.
- 31. (previously added) The process of claim 30 wherein the chelator consists of a crown ether.
- 32. (previously added) The process of claim 30 wherein the primary amine-containing molecule is a polyamine.
- 33. (previously added) The process of claim 30 wherein the primary amine-containing molecule is a polycation.
- 34. (previously added) The process of claim 30 wherein the chelator consists of a polychelator.
- 35. (previously added) The process of claim 34 wherein the polychelator consists of a polyanion.
- 36. (previously added) The process of claim 35 wherein the polyanion recharges the complex to give the complex a negative surface charge.
- 37. (previously added) The process of claim 34 wherein the polychelator consists of a polycation.
- 38. (previously added) The process of claim 30 wherein the chelator is covalently linked to a compound selected from the list consisting of: a cell targeting signal, a releasing signal, and a hydrophobic group.
- 39. (previously added) The process of claim 30 wherein the primary amine-containing molecule is selected from the list consisting of: a cell receptor signal, a releasing signal, a hydrophobic group and a steric stabilizer.
- 40. (previously added) The process of claim 30 wherein the polynucleotide is expressible.
- 41. (previously added) The process of claim 40 wherein the polynucleotide expresses a therapeutic gene.
- 42. (previously added) The process of claim 30 wherein the cell consists of an *in vivo* mammalian cell.

- 43. (currently amended) A process for delivering a polynucleotide to a cell comprising:
 - a) forming a complex consisting of a polynucleotide, and a first molecule and a second molecule wherein one or more chelators are covalently linked to the first molecule
 - b) adding to the complex of a) a solution containing and one or more metal ions and a second molecule, to which one or more chelators are covalently linked to the second molecule, wherein coordination of a one or more metal ions by one or more of the chelators stabilizes the interaction between the first molecule and the second molecule; and,
 - bc) delivering the complex of step b) to the cell.
- 44. (previously added) The process of claim 43 wherein the first molecule consists of a polycation and the second molecule consists of a polyanion.
- 45. (previously added) The process of claim 43 wherein the first molecule consists of a polycation, and the second molecule is selected from the list consisting of a cell receptor signal, a releasing signal, a hydrophobic group and a steric stabilizer.
- 46. (currently amended) The process of claim 30 45 wherein the polynucleotide is expressible.
- 47. (currently amended) The process of claim 40 46 wherein the polynucleotide expresses a therapeutic gene.
- 48. (currently amended) The process of claim 30 47 wherein the cell consists of an *in vivo* mammalian cell.